

JOB NO.:

IGS06-05

W.O. # 06-86652-0

TITLE:

Coal Yard Dust Collector Controls and Upgrades

DESCRIPTION:

Install new differential pressure instrumentation and controls along with hopper level controls. Restore the balance gates to the original positions and install internal baffles to direct the dust away from the bags.

JUSTIFICATION:

REGULATORY REQUIREMENT

REGULATION:

Title V operating permit

NONCOMPLIANCE:

Frequent high differential pressure alarms

MEANS OF COMPLIANCE:

Modify the instrumentation to give a broader operating range.

DEADLINE FOR COMPLIANCE:

ASAP

ADDITIONAL DETAIL:

The dust collectors are frequently in alarm for "High Differential Pressure." The manufacturer of the equipment recommended that we install additional instrumentation so that the control and alarming functions could be separated. This will give the baghouse a broader range with which to operate without coming into alarm. They also recommended that we install internal baffles to direct the flow of dust into the hopper and away from the bags. The hopper level instrumentation is obsolete and needs to be upgraded. This project will go through each dust collector and update the controls to improve operation and reliability.

COST ESTIMATE:

	<u>2006-2007</u>
Engineering Labor	\$2,000
Installation Labor	\$30,000
Contractor Labor	\$20,000
Material	<u>\$180,000</u>
Job Total	\$232,000

ALTERNATIVES:

We have looked at other possibilities for dust control including wet suppression, foam suppression, and energy dissipating chutes. While these other options would work, the cost of maintaining the

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dust collectors was by far the least expensive.

EFFECT OF DEFERRAL:

Possibility of noncompliance with Operating Permit.

PROJECT HISTORY:

We have modified one dust collector on a trial basis and the proposed changes eliminated the high differential pressure alarms.